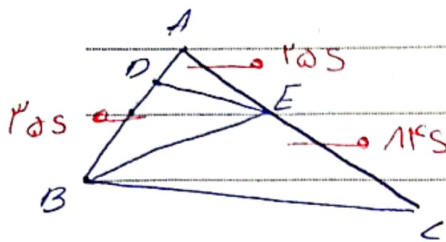


1. ۲۲

بازرسی دفتر C

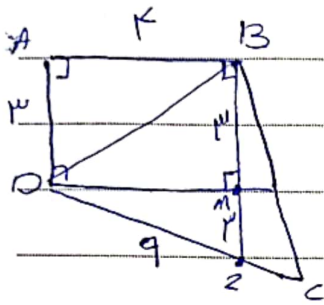
(زهرا، ال، دانی)



$$DE \parallel BC \quad \frac{S_{BCE}}{S_{BDE}} = \frac{1 \times 1}{1 \times 1} = \frac{1}{1} = 1$$

$$S_{ADE} = S_{BOE}$$

$$\frac{S_{ADE}}{S_{ABC}} = \left(\frac{1}{11}\right)^2 = \frac{1}{121}$$

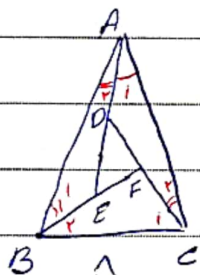


$$\begin{aligned} \angle BDC &= \angle BDM \\ \angle D_1 &= \angle D_2 \\ \angle MDO &= \angle MDO \\ \angle M_1 &= \angle M_2 = 90^\circ \end{aligned}$$

$$\triangle DMB \cong \triangle DMZ$$

$$\overline{DM} = \overline{DM} \quad \overline{DZ} = \overline{DM}$$

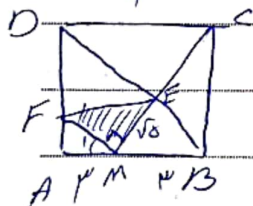
$$\rightarrow \angle B \text{ در } M \rightarrow \text{قطر} \rightarrow \angle D \text{ و } F \rightarrow \angle C \text{ و } F \rightarrow (2)$$



$$\triangle ABF, \triangle CAE, \triangle BCD, \triangle EFD, \triangle DFO, \triangle AB, \triangle AC, \triangle BC$$

$$\left. \begin{aligned} D_1 &= \angle A_1 + \angle C_1 \\ \angle C_1 &= \angle A_1 \end{aligned} \right\} \rightarrow \angle C = \angle D_1 \rightarrow \triangle F_1 B \rightarrow \triangle DEF \sim \triangle ABC$$

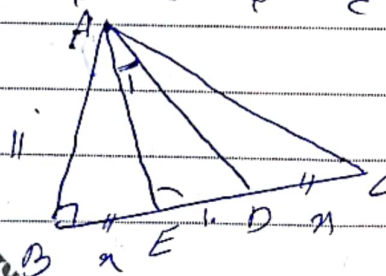
$$\frac{EF}{BA} = \frac{FD}{CB} = \frac{1}{1} = 1 \rightarrow \triangle A = \triangle C$$



$$\begin{aligned} MC &= \sqrt{10} \rightarrow \triangle DCN \sim \triangle MB \rightarrow \frac{ME}{EC} = k = \frac{1}{1} \\ ME &= \sqrt{10} \quad \angle M = \angle C_1 \quad \angle A = \angle B \end{aligned}$$

$$\rightarrow \frac{ME}{MC} = k = \frac{1}{1} \rightarrow FM = \frac{\sqrt{10}}{1} \rightarrow S_{FME} = FM \times ME \times \frac{1}{2}$$

$$= \frac{\sqrt{10}}{1} \times \sqrt{10} \times \frac{1}{2} = \frac{10}{2} = 5$$



$$\left. \begin{aligned} \angle A_1 &= \angle C_1 \end{aligned} \right\} \rightarrow \triangle AED \sim \triangle ACE \rightarrow \frac{DE}{EA} = \frac{EA}{EC}$$

$$\rightarrow \frac{1}{\sqrt{11} + 1} = \frac{\sqrt{11} + 1}{11 + 1} \rightarrow x = \sqrt{11}$$

$$x^2 - 1 \cdot x + 1 = 0 \rightarrow (x - 1)(x - 1) = 0$$



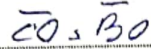
$$A \text{Exc} E_s (FB)^I \rightarrow FB_s A \rightarrow BE_s E$$

$$P_{\text{avg}} F_{CB} = \sqrt{1^2 + 14^2} = 14.58$$

$12^N, 14^N$

91 5 A

$$\sqrt{(\kappa\sqrt{r})^2 + (\lambda\sqrt{r})^2} = \epsilon\sqrt{1}$$



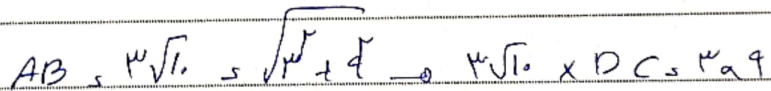
$$\hat{E}_1 \rightarrow \hat{E}_2 \rightarrow q_0$$

500 E

$$\begin{matrix} \overline{CO}, \overline{BO} \\ \wedge \quad \wedge \end{matrix} \left\{ \begin{matrix} \overline{OO}, \overline{OO} \\ \wedge \quad \wedge \end{matrix} \right. \quad \overline{OEB} \stackrel{\Delta}{=} \overline{OEC} \rightarrow CE, BE \sim \sqrt{2}$$

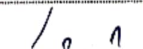
$$\sqrt{P+E} \leq K\sqrt{O} \leq BC \quad \left. \begin{array}{l} \hat{E}_1, \hat{D}_2 \in \mathcal{Q} \\ \hat{C} \end{array} \right\} \text{ii. } \hat{E}_C \sim \hat{C} \hat{O} \hat{B} \xrightarrow{K=\frac{1}{F}} \hat{E} = \frac{\sqrt{O}}{F}$$

$$OE^2 = OE \cdot AE \rightarrow 0, \frac{\sqrt{8}}{2} \cdot EA = EA = 2\sqrt{8} \rightarrow S_{ABCE} = \frac{\sqrt{8} \cdot 2\sqrt{8}}{2} = 8$$



$$DC = \frac{4}{\sqrt{10}}$$

$$\begin{aligned} & \text{CE} \propto \text{BS}(\text{DC})^4 \rightarrow \text{CE} \propto 9 \times \frac{11}{1.} \rightarrow \text{CE} \propto \frac{9}{1.} \\ & \rightarrow \text{BE} \propto \frac{11}{1.} \end{aligned}$$



$$9. \hat{D} = \hat{B}$$

$$\underline{\text{ii}} \quad \triangle DEA \sim \triangle ABC \rightarrow \frac{AD}{DE} = \frac{16}{15}$$

$$CAB \sim ACB \sqrt{14^2 + 14^2}$$

— BH-9,4

$$B^D/A \rightarrow AA \cup \sqrt{14^2 - (9,4)^2} \cup 17A \quad AE \cup 9, K$$

$$dx, y, z \rightarrow x, y, z \rightarrow DE, y, z, \boxed{y, z}$$